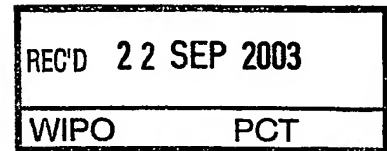


Rec'd PCT/PTO 09 FEB 2005
PCT/NZ03/00175



CERTIFICATE

This certificate is issued in support of an application for Patent registration in a country outside New Zealand pursuant to the Patents Act 1953 and the Regulations thereunder.

I hereby certify that annexed is a true copy of the Provisional Specification as filed on 5 August 2002 with an application for Letters Patent number 520531 made by MURRAY DOUGLAS JONES and MARK ANDREW JONES.

I further certify that the Provisional Specification has since been postdated to 9 August 2002 under Section 12(3) of the Patents Act 1953.

Dated 10 September 2003.

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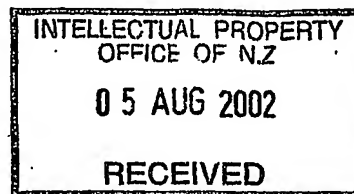
Neville Harris
Commissioner of Patents, Trade Marks and
Designs



POST-DATED UNDER SECT. 12(3)

TO 9 Aug 2002NEW ZEALANDPatents Act 1953PROVISIONAL SPECIFICATIONA CLIP

WE, MURRAY DOUGLAS JONES a New Zealand citizen of 6 Nursery Road, Masterton, New Zealand and MARK ANDREW JONES a New Zealand citizen of 38 Burns Street, Dannevirke, New Zealand do hereby declare this invention to be described in the following statement:-



This invention relates to a clip. More particularly, a clip according to the present invention is intended principally for use in horticulture for clipping growing plants or young trees or parts thereof to a support.

The technique of tying part of a plant or young tree to a support such as a stake is well known. This provides the plant/tree with sufficient support while it grows to a stage where it can be self-supporting or can withstand damage in inclement weather conditions such as strong or high winds.

A known problem with tie devices is that as the plant/tree grows there may not be "give" in the tie to accommodate the increased size of the plant/tree at the point that it is tied. This can result in damage to the plant/tree. For example, a tree can become effectively ring-barked and in extreme cases this will cause the tree to die.

A further problem can arise from the technique needed to place and fix a tie in position. For example, with people having impaired dexterity in fingers or finger joints, it is often difficult to impossible or at least time consuming to tie the tie device about a stake and/or

plant/tree. Sometimes such impairment can be temporary e.g. arise due to cold weather conditions or where moisture can render the tie device slippery or difficult to manipulate.

An object of the present invention is thus to provide a clip which can be used in horticultural work and which is reasonably straightforward to use.

It is a further object of the present invention to provide a clip for use in horticultural work where the clip can accommodate to a certain degree, increasing size of a plant/tree due to growth.

In the following the term plant will be used to broadly include plants, scrubs, bushes and trees.

* Broadly according to one aspect of the present invention, there is provided a clip including a body, an opening within the body and in which, in use, a part of a plant can engage, a first slot extending between said opening and an edge of the body and means to enable the body to be coupled to a means for providing support to the plant on part of the plant.

In a preferred form of the invention the coupling means is a second opening within the body and a second slot extending between the second opening and an edge of the body. Preferably the second slot extends from an edge of the body which is opposite to that from which the first slot extends.

According to a preferred form of the invention the first slot is of doglegged form. Preferably the second slot is also of doglegged form.

Preferably the first and second slots each have a widened mouth at the edge of the body.

Preferably the body is of moulded plastic construction. The peripheral edge of the body and the edges of the first and second slots and the opening and second opening include a wall which projects from opposite flat sides of the body. Preferably the wall has rounded edges.

In a preferred embodiment the clip is symmetrical about central longitudinal and lateral axes.

In the following more detailed description of the present invention reference will be made to the accompanying drawings in which:-

Figure 1 is a perspective view of a preferred embodiment of the clip,

Figure 2 is a plan view of the clip shown in Figure 1, and

Figure 3 is an edge view of the clip as shown in Figures 1 and 2.

According to a preferred form of the invention the clip is of unitary construction and is moulded from a suitable plastic material.

In the form of the invention as illustrated, the clip comprises a body 10 which is of generally flat configuration, but with a peripheral edge wall 11 which projects either side of the flat surfaces 12 of the body 10. In the preferred form of the invention the peripheral wall 11 is continuous and it is of a curved or rounded profile, so that in use there is reduced

likelihood of an edge of the clip causing damage to the plant.

The body 10 includes two openings 13 and 14. In the preferred form of the invention these openings 13 and 14 are concentric with curved ends 16 of the body 10. Extending into each of openings 13 and 14 from opposite long sides 17 of the body 10 are respective slots 18 and 19. As shown, the slots 18 and 19 are preferably of "doglegged" form.

The lead in portion 20 of each of slots 18 and 19, which extends in from the long edge 17 is substantially at right-angles to the long edge and then curves into an inclined portion 21, which opens into the opening 13/14. In the preferred form of the invention a mouth 22 is formed where the slot 18/19 meets with the long edge 17.

As can be seen from the drawings, the clip is in the preferred form symmetrical about longitudinal and lateral central axes.

In use, the user will apply the clip to a stake by forcing the stake through say slot 18 into opening 13. Because of the degree of flexibility in what is

effectively cantilevered portion 23 of the body 10, it is able to flex out of the plane of the body 10. This thereby opens up the slot 18 to permit passage there through of the stake.

In a like manner by bending cantilevered portion 24 adjacent opening 14 out of the plane of clip body 10, a portion of a plant can pass through slots 19 and into opening 14.

Generally, the portion of the plant to be inserted into opening 14 will be of overall cross-sectional area less than that of the opening 14. However, when the plant has grown to a point where the cross-sectional area of the opening 14 is largely taken up by the part of the plant in opening 14, the flexibility of the leg portion 23 will enable this portion to flex out of the plane of the clip body 10. This thereby reduces pressure on the part of the plant in the opening 14. This bending of leg portion 23 will also provide a visual indicator that the clip either needs to be repositioned or removed and replaced by a larger clip.

Because of its construction the clip is easy to use. Without requiring any significant dexterity, a user can

simply bring the mouth portion 22 of each slot into contact with the stake or part of the plant, as the case may be. A forcing action can then be used to cause the respective legs 23 and 24 to deflect so as to open up the slots 18 and 19, enabling the passage of the stake and part of the plant to pass through the slot and into the respective openings 13 and 14. The clip can, therefore, be applied quickly.

Because of its compact size and the ability for the clip to be produced economically, a gardener or horticulturalist can carry on his or her person a supply of the clips and have them ready for use as and when required.


The invention is open to modification as will be appreciated by those skilled in the art. For example, in a modified form, the clip may not necessarily have opening 13 and associated slot 18, but rather may have one or a plurality of openings through which fasteners e.g. a staple, nail or the like. so as to fasten the clip to a fixture e.g. post, adjacent the plant.

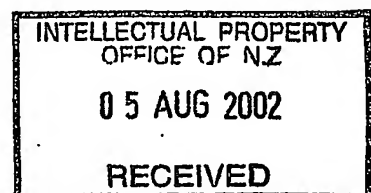
In a further alternative arrangement, the clip may not necessarily be flat as shown in the drawings, but could

be hinged at about mid-point or moulded into a configuration where one part of the clip is located at an angle e.g. right-angle to the other part.

The clip according to the invention can be used for purposes other than those referred to herein. For example, in the emu and ostrich industry the clip could be used as a leg clip to keep chicks legs from splaying at birth. A leg of the chick would be located in each of the openings 13 and 14.

Other modifications which will fall within the scope of the present invention will be apparent to those skilled in the art.

MURRAY DOUGLAS JONES and
MARK ANDREW JONES
By their Attorney
DON HOPKINS & ASSOCIATES
Per: 



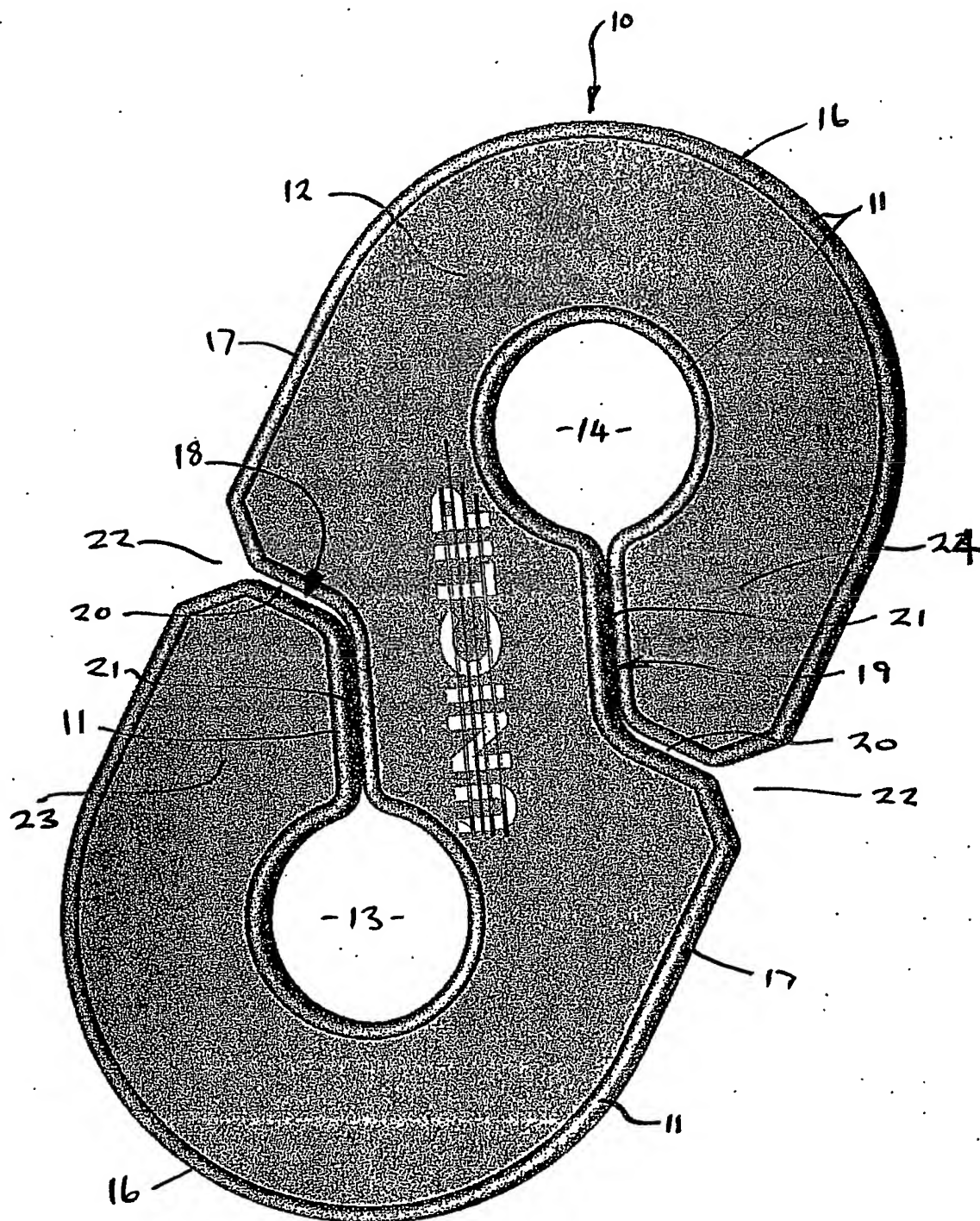


FIG. 1.

